MAINVIEW® for WebSphere MQ Integrator User Guide

Version 4.1

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United States and Canada Outside United States and Canada

Telephone

Fax

(01) 713 918 8800

(01) 713 918 8000

Address BMC Software, Inc.

2101 CityWest Blvd.

Houston TX 77042-2827

713 918 8800 or

Telephone

800 841 2031

Fax 713 918 8000

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 - product version (release number)
 - license number and password (trial or permanent)
- operating system and environment information
 - machine type
 - operating system type, version, and service pack or other maintenance level such as PUT or PTF
 - system hardware configuration
 - serial numbers
 - related software (database, application, and communication) including type, version, and service pack or maintenance level
- sequence of events leading to the problem
- · commands and options that you used
- messages received (and the time and date that you received them)
 - product error messages
 - messages from the operating system, such as file system full
 - messages from related software

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About This Book

This book contains detailed information about MAINVIEW for WebSphere MQ Integrator and is intended for network administrators and system administrators.

To use this book, you should be familiar with the following items:

- IBM's WebSphere MQ Integrator
- Multiple Virtual Storage (MVS) systems, job control language (JCL), and the Interactive System Productivity Facility (ISPF)
- your client and host operating systems

For example, you should know how to respond to ISPF panels and how to perform common actions in a window environment (such as choosing menu items and resizing windows).

How This Book Is Organized

This book is organized as follows.

Chapter/Appendix	Description
Chapter 1, "Introduction"	provides an introduction to the features and functions of MAINVIEW for WebSphere MQ Integrator
Chapter 2, "Easy Menus and Views"	explains the EZMQI and EZISSI Easy Menus and theMAINVIEW for WebSphere MQ Integrator views that are displayed on the MAINVIEW console

Chapter/Appendix	Description
Chapter 4, "Using MAINVIEW for WebSphere MQ Integrator"	provides instructions for using MAINVIEW for WebSphere MQ Integrator
Chapter 5, "Setting Alarms"	provides information about alarms in MAINVIEW for WebSphere MQ Integrator

In addition, this book contains a glossary of terms and an index.

Related Documentation

BMC Software products are supported by several types of documentation:

- online and printed books
- online Help
- release notes and other notices

In addition to this book and the Help, you can find useful information in the publications listed in the following table. As "Online and Printed Books" on page xiii explains, these publications are available on request from BMC Software.

Category	Document	Description
installation documents	OS/390 and z/OS Installer Guide	provides instructions for using the installation system, and describes the Product Authorization utility and AutoCustomization
	MAINVIEW Installation Requirements Guide	provides product-specific information such as software and storage requirements, product libraries, and FMIDs
	Implementing Security for MAINVIEW Products	provides information on basic MAINVIEW security, enhanced security, and MAINVIEW alternate access security
	MAINVIEW Common Customization Guide	provides instructions for manually customizing the MAINVIEW environment for your products
core documents	MAINVIEW Administration Guide	provides information about MAINVIEW operations, targets, single-system image contexts, MAINVIEW Alarm Manager, data sets, view customization, and diagnostic facilities
	MAINVIEW Alarm Manager User Guide	describes how to create and install alarm definitions that indicate when exceptions occur in a sysplex

Category	Document	Description
	MAINVIEW Alternate Access Implementation and User Guide	provides information on how to configure, start, and stop VTAM and EXCP AutoLogon sessions to access MAINVIEW products without an active TSO subsystem
	MAINVIEW Explorer Implementation and User Guide	describes how to install and use the host server and client software to access MAINVIEW products from a Web browser
	MAINVIEW Quick Reference	introduces the MAINVIEW family of products and lists the commands used to manage the MAINVIEW windows environment
	Using MAINVIEW	provides information about working with MAINVIEW products in windows mode and full-screen mode
supplemental documents	release notes, flashes, technical bulletins	provides current information about MAINVIEW for WebSphere MQ Integrator

Online and Printed Books

The books that accompany BMC Software products are available in online format and printed format. If you are a Windows or Unix user, you can view online books with Acrobat Reader from Adobe Systems. The reader is provided at no cost, as explained in "To Access Online Books." You can also obtain additional printed books from BMC Software, as explained in "To Request Additional Printed Books."

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To Request Additional Printed Books

BMC Software provides some printed books with your product order. To request additional books, go to http://www.bmc.com/support.html.

Online Help

MAINVIEW for WebSphere MQ Integrator includes online Help. In the MAINVIEW for WebSphere MQ Integrator ISPF interface, you can access Help by pressing F1 from any ISPF panel.

Release Notes and Other Notices

Printed release notes accompany each BMC Software product. Release notes provide current information such as

- updates to the installation instructions
- last-minute product information

In addition, BMC Software sometimes provides updated product information between releases (in the form of a flash or a technical bulletin, for example). The latest versions of the release notes and other notices are available on the Web at http://www.bmc.com/support.html.

Conventions

This section provides examples of the conventions used in this book and explains how to read ISPF panel-flow diagrams and syntax statements.

General Conventions

This book uses the following general conventions:

Item	Example
information that you are instructed to type	Type SEARCH DB in the designated field. Type search db in the designated field. (Unix)
specific (standard) keyboard key names	Press Enter.
GUI elements and menu sequences	Choose File => Open.
directories, file names, Web addresses, e-mail addresses	The BMC Software home page is at www.bmc.com.
Unix commands, command options, database names	Use the sbacktrack program to create a backup script.
code examples, syntax statements, system messages, screen text	//STEPLIB DD The table tableName is not available.
emphasized words, new terms	The instructions that you give to the software are called commands.
variables	In this message, the variable <i>fileName</i> represents the file that caused the error.

This book uses the following types of special text:

Note: Notes contain important information that you should consider.

Warning! Warnings alert you to situations that could cause problems, such as loss of data, if you do not follow instructions carefully.

Tip: Tips contain information that might improve product performance or that might make procedures easier to follow.

Syntax Statements

Syntax statements appear in Courier. The following example shows a sample syntax statement:

COMMAND KEYWORD1 [KEYWORD2|KEYWORD3] KEYWORD4={YES|NO}
fileName...

The following table explains conventions for syntax statements and provides examples:

Item	Example
Items in italic type represent variables that you must replace with a name or value. If a variable is represented by two or more words, initial capitals distinguish the second and subsequent words.	alias databaseDirectory
Brackets indicate a group of options. You can choose at least one of the items in the group, but none of them is required. Do not type the brackets when you enter the option. A comma means that you can choose one or more of the listed options. You must use a comma to separate the options if you choose more than one option. Unix options are indicated with a hyphen.	<pre>[tableName, columnName, field] [-full, -incremental, -level] (Unix)</pre>
Braces enclose a list of required items. You must enter at least one of the items. Do not type the braces when you enter the item.	{DBDName tableName} {-a -c} (Unix)
A vertical bar means that you can choose only one of the listed items. In the example, you would choose either <i>commit</i> or <i>cancel</i> .	{commit cancel} {-commit -cancel} (Unix)
An ellipsis indicates that you can repeat the previous item or items as many times as necessary.	columnName

Summary of Changes

This section summarizes changes to the functionality of the product, listing the changes by product version and release date. The summary includes enhancements to the product and any major changes to the documentation.

Version 4.1 July 15, 2002

Initial release of the product.

Chapter 1 Introduction

This chapter contains the following sections:

Overview	-2
Features and Functions	-2
Architecture	1-3
Installation	-4
Requirements	-4
License Key	-4
HFS Component Directory and QM Profile	-4
Requirements for Monitoring DS Environments	-5
Starting the Node Manager for MQ	-5
Security Authorization	

Overview

MAINVIEW® for WebSphere MQ Integrator is a system management application that provides services and functions that help you monitor and manage your IBM WebSphere MQ Integrator (WMQI) network. This product allows you to monitor components using multiple panels of different sizes simultaneously and to direct actions from one panel to another, all on one terminal. This product also allows you to start and stop traces for multiple brokers and broker resources easily from one location.

Built on the BMC Software MAINVIEW architecture, MAINVIEW for WebSphere MQ Integrator uses a traditional MAINVIEW interface to provide access to broker network information. For more information on the MAINVIEW architecture, how to navigate in MAINVIEW, and how to customize MAINVIEW views, see *Using MAINVIEW*.

MAINVIEW for WebSphere MQ Integrator is a licensed feature of MAINVIEW for WebSphere MQ and requires this product as a prerequisite.

Features and Functions

MAINVIEW for WebSphere MQ Integrator displays information for WMQI components that are hosted by the target queue manager. You can display WMQI component information for a single queue manager or for all of the queue managers in the current context using Single System Image (SSI) mode. For information on setting contexts, see the sections on displaying target systems and SSI contexts in *Using MAINVIEW*.

This release of MAINVIEW for WebSphere MQ Integrator contains the following features and functions:

- provides a queue manager based view of WMQI components
- discovers WMQI components automatically
- monitors OS/390, Unix, and Windows broker networks
- displays properties and real-time status of WMQI components and their resources, including message flow nodes and associated queues
- provides information on OS/390 broker and user name server address spaces
- allows you to change properties and to start and stop WMQI components and their resources

- allows you to start and stop traces and change trace attributes
- displays Windows application events

Architecture

MAINVIEW for WebSphere MQ Integrator is a licensed feature of MAINVIEW for WebSphere MQ and runs in the same BBI-PAS address space. Figure 1-1 illustrates how MAINVIEW for WebSphere MQ Integrator communicates with WMQI on OS/390 and Distributed Systems.

CONTROL CENTER **BROKER A** OMGR A CONFIG MGR QMGR C UNS PAS 1 PAS 2 PATROL for WebSphere MQ Integrator **MVMQS** MVMQS MVMQI MVMQI CAS BROKER B | QMGR B |◀ UNS TSO z/OS Distributed Systems

Figure 1-1 MAINVIEW for WebSphere MQ Integrator Architecture

On OS/390, MAINVIEW for WebSphere MQ Integrator communicates with WMQI components through the PAS. On Distributed Systems, PATROL for WebSphere MQ Integrator uses the Node Manager for MQ to pass information between WMQI components and the PAS. To monitor WMQI components on Distributed Systems, you must install PATROL for WebSphere MQ Integrator on each host that you want to monitor.

Installation

MAINVIEW for WebSphere MQ Integrator is installed when you install MAINVIEW for WebSphere MQ. See the *MAINVIEW for WebSphere MQ User Guide* for information on installing that product. The remainder of this section contains installation requirements and post-installation tasks.

Requirements

The following products are required to run MAINVIEW for WebSphere MQ Integrator:

- WebSphere MQ Integrator for z/OS 2.1
- MAINVIEW for WebSphere MQ 4.1
- PATROL for WebSphere MQ Integrator 1.3.02, if you are monitoring Distributed Systems components

License Key

When you have installed MAINVIEW for WebSphere MQ, you will need a license key to access MAINVIEW for WebSphere MQ Integrator and MAINVIEW for WebSphere MQ. Contact your BMC Software Sales Representative to obtain the license key.

HFS Component Directory and QM Profile

You must set a target for each queue manager associated with components that you want to monitor. See the *MAINVIEW for WebSphere MQ User Guide* for instructions on setting a target by defining queue manager profiles.

To monitor WMQI components, you must complete the following WMQI Extensions options as part of the profile on the QMPROF view:

- Broker Directory
- UNS Directory

Fill in the HFS component directory path for the components (broker and/or user name server) hosted by the queue manager. The path corresponds to the value of the COHFS parameter in the respective broker or user name server started task.

Requirements for Monitoring DS Environments

To monitor WMQI components on Distributed Systems, you must install PATROL for WebSphere MQ Integrator on each host that you want to monitor. The PATROL Agent is not required nor used to monitor Distributed Systems components from MAINVIEW for WebSphere MQ Integrator. The Node Manager for MQ, installed with PATROL for WebSphere MQ Integrator, communicates information between WMQI components on Distributed Systems and the PAS.

Starting the Node Manager for MQ

After you install PATROL for WebSphere MQ Integrator on each Distributed Systems host that you want to monitor, you must start the Node Manager for MQ. Run the following command from your operating console to install the Node Manager for MQ and start communications with MAINVIEW for WebSphere MQ Integrator:

Platform	Command
Windows	MCMNM -install
Unix	MCMNM

The Node Manager for MQ port defaults to 5000. To change the default port, add the following parameter to the MCMNM command:

-s <port number>

The Node Manager for MQ runs as a service on Windows. It is not supported on the Windows 95 platform.

Security Authorization

Proper access must be enabled for communication between MAINVIEW for WebSphere MQ Integrator and WebSphere MQ Integrator. The following is required for proper authorization:

- in RACF, the PAS user ID must have an OMVS segment with UID = 0
- MAINVIEW for WebSphere MQ Integrator must have PUT authority access to the **SYSTEM.BROKER.*** queue
- to monitor WMQI components on Distributed Systems, the user ID used to install PATROL for WebSphere MQ Integrator must be a member of the mqm and mqbrkrs MQSeries groups

For further information on security, see the following:

- Implementing Security for MAINVIEW Products
- PATROL for WebSphere MQ Integrator User Guide
- WebSphere MQ Integrator for z/OS Customization and Administration Guide

Chapter 2 Easy Menus and Views

This chapter contains the following sections:

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Configuration Manager Views	2-13
User Name Server Views	2-14
Event Views	2-16

Overview

MAINVIEW for WebSphere MQ Integrator views display information that helps you monitor and manage your broker network. Easy menus provide a convenient way to use MAINVIEW for WebSphere MQ Integrator without having to remember view names.

MAINVIEW for WebSphere MQ Integrator Easy Menus

Easy menus allow you to navigate through the product based on a feature you want to monitor rather than on a specific view. There are two easy menus in MAINVIEW for WebSphere MQ Integrator: EZMQI and EZISSI.

Easy menus have symbols to the left of the hyperlinks to indicate certain actions. Table 2-1 describes symbols that are used in easy menus.

Table 2-1 Easy Menu Symbols

Symbol	Description
>	takes you to another easy menu (sub-menu)
	takes you directly to a view that displays data

EZMQI

EZMQI is the primary easy menu for MAINVIEW for WebSphere MQ Integrator. The selections on this menu let you access product views for a specified target quickly. For example, you can access broker details for a specified queue manager from this menu.

Figure 2-1 shows the EZMQI easy menu.

Figure 2-1 EZMQI Easy Menu

```
01Jul2002 15:05:39 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)-------
COMMAND ===>
                                                      SCROLL ===> CSR
                  ALT WIN ===>
CURR WIN ===> 1
>W1 =EZMQI=========CMQM=====*====01JUL2002==15:05:39====MVMQS====D===1
                       Message Broker Menu
Qmgr Target Name ---> CMQM
                                           cmqm
 WMQI Components
                                            Tools and Menus
Msg Broker Resources Trace settings
                                            Queues Summary
. Execution Groups . Message Broker trace . Per Message Broker
. Message Flows . Execution Groups trace . Per Execution Group
. Nodes
                     . Message Flows trace . Per Message Flow
                     . User Name Server trace
 Events
                                              WebSphere MQ feature
. Event Sources
                                            > Queue Manager Menu
                                            . Return
```

Options on this menu are grouped into the categories described in Table 2-2.

Table 2-2 EZMQI Easy Menu Categories

Category	Description
WMQI Components	links to views of all components, brokers, the configuration manager, and the user name server
Message Broker Components	links to views of execution groups, message flows, and nodes
Events	links to views of event sources, events, and event details
Trace Settings	links to views of broker, execution group, message flow, and user name server trace settings
Tools and Menus	links to sub-menus for changing the context and displaying all views, and to the queue manager profile and audit and message log
Queues Summary	links to a queue summary per broker, per execution group, or per message flow
WebSphere MQ Feature	links to the queue manager sub-menu

EZISSI

The EZISSI easy menu provides access to views for multiple targets. For example, you can access broker details for all of the queue managers with associated brokers from this menu. Options on this menu are grouped in the same categories as the EZMQI menu.

You can display the EZISSI menu by typing **EZISSI** on the Command Line and pressing **Enter**.

MAINVIEW for WebSphere MQ Integrator Views

MAINVIEW for WebSphere MQ Integrator views display information that helps you monitor and manage your WMQI broker network. You can display views and manage panels in MAINVIEW for WebSphere MQ Integrator the same way you do in any MAINVIEW product. You can display multiple panels of different sizes simultaneously and you can direct actions from one panel to another, all on one terminal.

In several views, you can perform a "drill-down" function. Drill-down functions let you view more detailed information about an item. You can drill down for more information in any view where a field name is highlighted. Some highlighted field names are hyperlinks to other applications or resources. For sample instructions on how to perform a drill-down function, see "Monitoring WMQI Components" on page 3-7.

To display a list of all MAINVIEW for WebSphere MQ Integrator views, select **Select View** from Tools and Menus on the EZMQI menu and press **Enter**. Table 2-3 lists all of the MAINVIEW for WebSphere MQ Integrator views. The remainder of this chapter discusses these views in more detail.

Table 2-3 List of MAINVIEW for WebSphere MQ Integrator Views (Part 1 of 2)

View	Name
WMQICOMP	WMQI Components List
BROKER	WMQI Broker Overview
BROKERD	WMQI Broker Detail
BKRZOS	WMQI z/OS Broker Overview
BKRZOSD	WMQI z/OS Broker Detail
MBTRACE	WMQI Broker Trace
EXECGRP	WMQI Execution Group Overview
EXECGRPD	WMQI Execution Group Detail
EGTRACE	WMQI Execution Group Trace
MSGFLOW	WMQI Message Flow Overview
MSGFLOWD	WMQI Message Flow Detail
MFTRACE	WMQI Message Flow Trace
NODE	WMQI Message Flow Node Overview
NODEZ	WMQI Message Flow Node Summary
NODED	WMQI Message Flow Node Detail
MBQZ	WMQI Broker Queues Summary
MBQS	WMQI Broker Queues

Table 2-3 List of MAINVIEW for WebSphere MQ Integrator Views (Part 2 of 2)

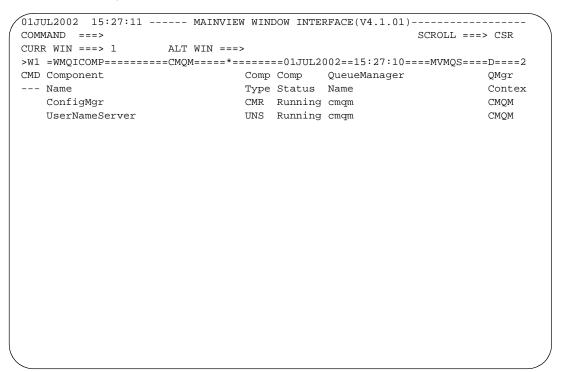
View	Name
EGQZ	WMQI Execution Group Queues Summary
EGQS	WMQI Execution Group Queues
MFQZ	WMQI Message Flow Queues Summary
MFQS	WMQI Message Flow Queues
CFGMGR	WMQI Configuration Manager Overview
CFGMGRD	WMQI Configuration Manager Detail
UNSVR	WMQI User Name Server Overview
UNSVRD	WMQI User Name Server Detail
UNSZOS	WMQI z/OS User Name Server Overview
UNSZOSD	WMQI z/OS User Name Server Detail
UNTRACE	WMQI User Name Server Trace
EVTS	WMQI Event Sources
EVTZQ	WMQI Event Browse
EVTSQ	WMQI Event
EVTSQD	WMQI Event Details

WMQI Components List View

The WMQI Components List (WMQICOMP) view provides information on all of the WMQI components associated with a queue manager or group of queue managers, depending on your target setting. This view displays the component name, the type of component, current status of the component (running or stopped), and the queue manager name and context for each component.

Figure 2-2 shows the WMQI Components List view.

Figure 2-2 WMQI Components List (WMQICOMP) View



Message Broker Views

Message broker views provide status, resource, property, and trace information for brokers associated with active queue managers. From the broker overview, you can monitor broker availability and drill-down to views for associated resources. You can change broker properties using the detail views and change trace attributes using the trace view. You can also start and stop WMQI components from the broker views.

Table 2-4 describes the views that provide detailed information about message brokers.

Table 2-4 Message Broker Views (Part 1 of 2)

View	Description
BROKER	The WMQI Broker Overview view displays name, status, platform type, resources, and the associated queue manager name for each broker. You can drill-down to resources and start and stop them from this view.
BROKERD	The WMQI Broker Detail view displays broker properties, such as the UUID, Process ID, status, data source name, user LIL path, and number of resources.

Table 2-4 Message Broker Views (Part 2 of 2)

View	Description
BKRZOS	The WMQI z/OS Broker Overview view displays the address space and type of address space where each broker is running, in addition to the name and resources of each OS/390 broker. You can drill down to resources and start and stop them from this view.
BKRZOSD	The WMQI z/OS Broker Detail view displays broker address space properties, USS process information including the HFS path name, the UUID, and resource information for an OS/390 broker.
MBTRACE	The WMQI Broker Trace view displays all trace settings for the current broker context, both active and inactive. You can start and stop traces and change trace attributes from this view.

Figure 2-3 shows the WMQI Broker Detail view.

Figure 2-3 WMQI Broker Detail (BROKERD) View

```
01JUL2002 16:15:12 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)------
COMMAND ===>
                                             SCROLL ===> CSR
CURR WIN ===> 1
                ALT WIN ===>
>W1 =BROKER===BROKERD==HNBKR====*====01JUL2002==16:14:58====MVMQS====D====1
 Broker Properties.....
  Broker Name..... HUYNHMB
  Broker UUID...... a5923832-dd00-0000-0080-ab4b84e10d89
  Broker Process Id..... 700
  Broker Status..... Running
  Configuration Timeout.....
  Configuration Delay Timeout.
                            60
  Data Source Name..... MQSIBKDB
  Data Source User ID..... patrol
  User Name Server QMgr..... (None)
  Work Path..... (None)
  User LIL Path...... D:/Program Files/IBM/WebSphere MQ Integrator
                        2.1/bin;D:/Program Files/IBM/WebSphere MQ I
                        ntegrator 2.1/jplugin
  MQSeries Trusted Application no
  Migrate Pub/Sub Broker..... no
```

Execution Group Views

Execution group views provide status, resource, property, and trace information for execution groups. From the execution group overview, you can monitor execution group availability and drill-down to views for associated resources. You can change execution group properties using the detail view and change trace attributes using the trace view.

You can start and stop resources from these views; however, you cannot start or stop execution groups. This must be done at the broker level.

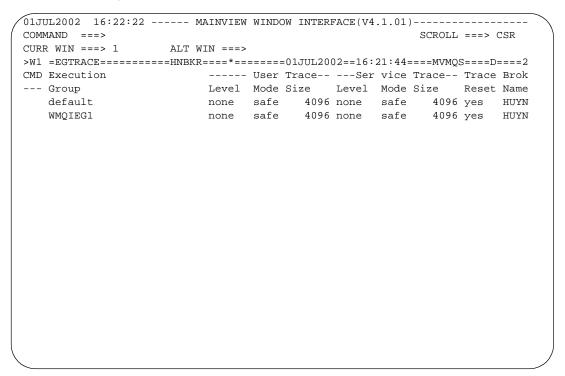
Table 2-5 describes the views that provide detailed information about execution groups.

Table 2-5 Execution Group Views

View	Description
EXECGRP	The WMQI Execution Group Overview view displays name, trace status, resources, and the associated broker for each execution group. You can drill-down to resources and start and stop them from this view.
EXECGRPD	The WMQI Execution Group Detail view displays execution group properties, such as the UUID, trace levels, the associated broker, and the number of started and stopped message flows.
EGTRACE	The WMQI Execution Group Trace view displays all trace settings, both active and inactive, for the listed execution groups. You can start and stop traces and change trace attributes from this view.

Figure 2-4 shows the WMQI Execution Group Trace view.

Figure 2-4 WMQI Execution Group Trace (EGTRACE) View



Message Flow Views

Message flow views provide status, property, and trace information for message flows. From the message flow overview, you can monitor the status of message flows and traces. You can change message flow properties using the detail view and change trace attributes using the trace view. You can start and stop message flows from these views.

Table 2-6 describes the views that provide detailed information about message flows.

Table 2-6 Message Flow Views

View	Description
MSGFLOW	The WMQI Message Flow Overview view displays name, status, trace status, and the associated execution group and broker for each message flow.
MSGFLOWD	The WMQI Message Flow Detail view displays message flow properties, such as the UUID, trace levels, and the associated execution group and broker. You can drill down to node information from this view.
MFTRACE	The WMQI Message Flow Trace view displays all trace settings, both active and inactive, for the listed message flows. You can start and stop traces and change trace attributes from this view.

Figure 2-5 shows the WMQI Message Flow Detail view.

Figure 2-5 WMQI Message Flow Detail (MSGFLOWD) View

```
01JUL2002 16:24:14 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)-------
COMMAND ===>
                                                     SCROLL ===> CSR
CURR WIN ===> 1
                   ALT WIN ===>
>W1 =MSGFLOW==MSGFLOWD=HNBKR====*=====01JUL2002==16:23:56====MVMQS====D====1
 Message Flow Properties.....
  Message Flow Name..... mf1
   Message Flow UUID...... 49266927-ee00-0000-0080-cb1c88520498
   Message Flow Status..... Started
   User Trace Level..... none
    User Trace Mode..... safe
    User Trace Size.....
   Service Trace Level..... none
    Service Trace Mode..... safe
    Service Trace Size.....
                               4096
   Trace Log Reset..... yes
   User Trace Filter..... None
   Additional Instances.....
                                  0
   Commit Count.....
                                  1
   Commit Interval.....
                                  0
   Coordinated Transaction.... No
   <Message Flow Nodes>.....
   <Message Flow In-Out Queues>
```

Message Flow Node Views

Message flow node views provide node type, property, and queue information for message flow nodes. From the message flow node overview, you can access the node type and message flow to which the node belongs. You can access node properties using the detail view. The queues and queue summary views provide the count of input and output nodes for a given context and the queues for each node associated with a component.

Table 2-7 describes the views that provide detailed information about message flow nodes.

Table 2-7 Message Flow Node Views

View	Description
NODE	The WMQI Message Flow Node Overview view lists node information, including the node name, type of node, and message flow to which the node belongs.
NODEZ	The WMQI Message Flow Node Summary view displays a list of node types used by the message flows in the current context and the count of each node type.
NODED	The WMQI Message Flow Node Detail view displays node properties such as the node type, UUID, trace level, and out, failure, and catch terminal connections.
MBQZ	The WMQI Broker Queues Summary view displays the count of input and output queues for the listed broker context.
MBQS	The WMQI Broker Queues view displays the queues for each node under a broker. The execution group and message flow are also listed for each node queue name.
EGQZ	The WMQI Execution Group Queues Summary view displays the count of input and output queues for each execution group.
EGQS	The WMQI Execution Group Queues view displays the queues for each node under an execution group. The message flow and broker are also listed for each node queue name.
MFQZ	The WMQI Message Flow Queues Summary view displays the count of input and output queues for each message flow in a context, in addition to the execution group name and broker name for each message flow.
MFQS	The WMQI Message Flow Queues view displays the queues for each node under a message flow. The execution group and broker are also listed for each node queue name.

Figure 2-6 shows the WMQI Message Flow Node Detail view.

Figure 2-6 WMQI Message Flow Node Detail (NODED) View

```
01JUL2002 16:25:07 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)------
COMMAND ===>
                                                            SCROLL ===> CSR
CURR WIN ===> 1
                    ALT WIN ===>
>W1 =NODED=======HNBKR====*=====01JUL2002==16:25:06====MVMQS====D===1
 Message Flow Node Properties
  Attribute Name
                                         Attribute Value
                                         ComIbmMQInputNode
   type
   name
                                         mf1_in4
   uuid
                                         c2ea6927-ee00-0000-0080-cb1c885204
   userTraceLevel
                                         none
   traceLevel
                                         none
   userTraceFilter
                                         none
   traceFilter
                                         none
   label
                                         mf1 in4
   messageDomainProperty
                                         XML
                                         mf1_in4
   transactionMode
                                         yes
   orderMode
                                         default
   logicalOrder
                                         yes
   allMsgsAvailable
                                         no
   matchMsgId
                                         no
   matchCorrelId
                                         no
   convert
                                         no
   convertEncoding
                                         546
```

Configuration Manager Views

Configuration manager views provide status and property information for the configuration manager. From the configuration manager overview, you can monitor the status of the configuration manager and its associated queue manager. You can change configuration manager properties and start or stop the configuration manager using the detail view.

Table 2-8 describes the views that provide detailed information about the configuration manager.

Table 2-8 Configuration Manager Views

View	Description
CFGMGR	The WMQI Configuration Manager Overview view displays the name, status, PID, and platform for the configuration manager. This view also displays the name and status of the queue manager associated with the configuration manager.
CFGMGRD	The WMQI Configuration Manager Detail view displays configuration manager properties, such as the Process ID, status, data source name, work path, and associated queue manager.

Figure 2-7 shows the WMQI Configuration Manager Detail view.

Figure 2-7 WMQI Configuration Manager Detail (CFGMGRD) View

```
01JUL2002 15:46:11 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)------
COMMAND ===>
                                               SCROLL ===> CSR
CURR WIN ===> 1
                ALT WIN ===>
>W1 =CFGMGRD=======CMQM=====*====01JUL2002==15:46:10====MVMQS====D===1
 ConfigMgr Properties.....
   ConfigMgr Name..... ConfigMgr
   ConfigMgr Process Id..... 840
   ConfigMgr Status..... Running
   Service User Password..... *******
   Data Source Name..... MQSICMDB
   Data Source User ID..... patrol
   Data Source User Password.... ****
   JDBC Connection Name..... db2
   JDBC Driver Name...... COM.ibm.db2.jdbc.app.DB2Driver
   MRM Data Source Name..... MQSIMRDB
   MRM Data Source User ID..... patrol
   NT Security Domain.....
   User Name Server QMgr.....
   Work Path.....
   Queue Manager..... cmqm
```

User Name Server Views

User name server views provide status, property, and trace information for the user name server. From the user name server overview, you can monitor the status of the user name server and its associated queue manager. You can change user name server properties and start or stop the user name server using the detail view. You can change trace attributes using the trace view.

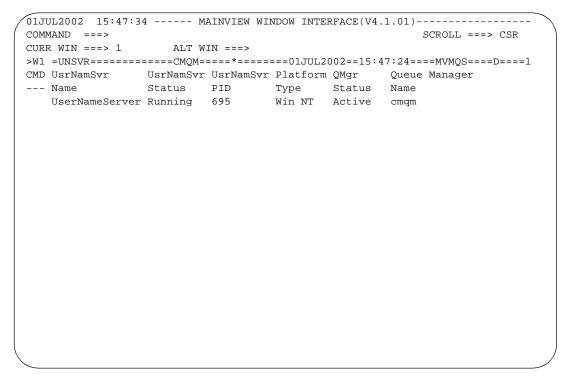
Table 2-9 describes the views that provide detailed information about the user name server.

Table 2-9 User Name Server Views

View	Description
UNSVR	The WMQI User Name Server Overview view displays the name, status, PID, and platform for the user name server. This view also displays the name and status of the queue manager associated with the user name server.
UNSVRD	The WMQI User Name Server Detail view displays user name server properties, such as the Process ID, status, service user ID, work path, and associated queue manager.
UNSZOS	The WMQI z/OS User Name Server Overview view displays the address space and type of address space where the user name server is running.
UNSZOSD	The WMQI z/OS User Name Server Detail view displays user name server address space properties, USS process information including the HFS path name, and the UUID for the OS/390 user name server.
UNTRACE	The WMQI User Name Server Trace view displays all trace settings, both active and inactive, for the user name server. You can start and stop traces and change trace attributes from this view.

Figure 2-8 shows the WMQI User Name Server Overview view.

Figure 2-8 WMQI User Name Server Overview (UNSVR) View



Event Views

Event views display Windows NT application events and event details. From the event sources view, you can select applications for which you want to view events.

Table 2-10 describes the views that provide detailed information about event sources.

Table 2-10 Event Views

View	Description
EVTS	The WMQI Event Sources view displays the list of applications for which Windows NT events are logged. You can select applications from this list in order to view events generated by these applications.
EVTZQ	The WMQI Event Browse view is displayed when you select an application from the WMQI Event Sources (EVTS) view. The browse view allows you to specify a starting position or number of events to retrieve for a the selected application.
EVTSQ	WMQI Event view displays application events for the applications you selected. This view displays the event number, severity, date, time, event ID, and event source. You can select an event from this view to display further details.
EVTSQD	WMQI Event Details view displays details for a selected application event. This view displays the event source, number, identity, severity, date, time, and event description.

Figure 2-2 shows the WMQI Event view.

Figure 2-9 WMQI Event (EVTSQ) View

COMMA	AND ===>	•				SCROLL ===> CSR
			ALT WIN ===>			
>W1 =						l====MVMQS====D===66
CMD		Event	Event	Event	Event	Event
	Number	Severity			Ident	Source
	2213	INFO	07/01/2002	02:19:52PM	9545	MQSeries
	2212	ERROR	07/01/2002	02:17:30PM	9999	MQSeries
	2211	ERROR	07/01/2002	02:17:30PM	9202	MQSeries
	2210	INFO	07/01/2002	02:17:28PM	9002	MQSeries
	2209	ERROR	07/01/2002	01:57:30PM	9999	MQSeries
	2208	ERROR	07/01/2002	01:57:30PM	9202	MQSeries
	2207	INFO	07/01/2002	01:57:28PM	9002	MQSeries
	2206	ERROR	07/01/2002	01:37:30PM	9999	MQSeries
	2205	ERROR	07/01/2002	01:37:30PM	9202	MQSeries
	2204	INFO	07/01/2002	01:37:28PM	9002	MQSeries
	2201	ERROR	07/01/2002	01:17:29PM	9999	MQSeries
	2200	ERROR	07/01/2002	01:17:29PM	9202	MQSeries
	2199	INFO	07/01/2002	01:17:27PM	9002	MQSeries
	2198	ERROR	07/01/2002	12:57:29PM	9999	MQSeries
	2197	ERROR	07/01/2002	12:57:29PM	9202	MQSeries
	2196	INFO	07/01/2002	12:57:27PM	9002	MQSeries
	2187	INFO	07/01/2002	12:39:42PM	9002	MQSeries
	2186	INFO	07/01/2002	12:39:41PM	9002	MQSeries

Chapter 3 Using MAINVIEW for WebSphere MQ Integrator

This chapter contains the following sections:

Accessing MAINVIEW for WebSphere MQ Integrator	. 3-2
Displaying the Components List	
Monitoring WMQI Components	
Displaying and Changing Component Properties	
Starting and Stopping Components	
Running Traces	
Viewing Windows Application Events	
Exiting from MAINVIEW for WebSphere MQ Integrator	

Accessing MAINVIEW for WebSphere MQ Integrator

Summary: You can access MAINVIEW for WebSphere MQ Integrator from the

MAINVIEW Selection Menu.

Before You Begin

You must have MAINVIEW for WebSphere MQ installed in order to access MAINVIEW for WebSphere MQ Integrator.

To Access the Product

- **Step 1** Display the MAINVIEW Selection Menu.
- Step 2 Type W on the command line to select WebSphere and MQSeries, and press Enter.

The WebSphere and MQSeries Solutions menu is displayed.

Step 3 Type 2 on the command line to select MAINVIEW for WebSphere MQ (or MAINVIEW for MQSeries in some versions of the product), and press Enter.

The WebSphere MQ Performance and Control menu is displayed.

Step 4 Type 2 on the command line to select MAINVIEW for WebSphere MQ Integrator, and press Enter.

The Session Control Parameters panel (Figure 3-1) is displayed.

Figure 3-1 Session Control Parameters Panel

BMC SOFTWARE ----- SESSION CONTROL PARAMETERS -----COMMAND ===> ===> BCLR (CAS Subsystem ID, ? for list of active SSIDs) Subsystem ID XDM mode ===> NO (Execute session in diagnostic mode, Yes/No) Press ENTER to confirm use of session parameters entered above. F6=RCHANGE F1=HELP F2=SPLIT F3=END F4=RETURN F5=RFIND F9=SWAP F11=RIGHT F12=RETRIEVE F8=DOWN F7=UP F10=LEFT

Step 5 Type the subsystem ID for the coordinating address space (CAS), and press **Enter**.

If you do not know the subsystem ID, see your MAINVIEW for WebSphere MQ Integrator administrator. The EZMQI Menu (Figure 3-2) is displayed.

Figure 3-2 EZMQI Menu

01JUL2002 16:13:15	MAINVIEW WINDOW INTERF.	ACE(V4.1.01) SCROLL ===> CSR
CURR WIN ===> 1 A	T III LITH	SCROLL> CSR
		0 16.13.15 NUMBER D 1
>MI =F7MOI========H		2==16:13:15====MVMQS====D====1
	Message Broker Menu	, ,
Qmgr Target Name>	HNBKR	huynh
WMQI Components		Tools and Menus
-	++	3
	Place cursor on	
. Config Manager	1	~ 3
. User Name Server	press ENTER	. Audit and Message Log
> MVS Only Resources	++	
Msg Broker Resources	Trace settings	Queues Summary
. Execution Groups	. Message Broker trace	. Per Message Broker
. Message Flows	. Execution Groups trace	. Per Execution Group
. Nodes	. Message Flows trace	. Per Message Flow
	. User Name Server trace	
Events		WebSphere MQ feature
. Event Sources		> Oueue Manager Menu
		~ 3
		. Return

Displaying the Components List

Summary:

The components list displays information about all of the WMQI components associated with a single queue manager or all of the queue managers in the current context. You can quickly determine which components are running using this view. You can also drill-down to more detailed information about the components in the list.

To Display the WMQI Components List

- **Step 1** Set the context to the queue manager or queue managers for which you want to view WMQI components.
- **Step 2** From the EZMQI Easy Menu, select **All Components** and press **Enter**.

The WMQI Components List view (Figure 3-3) is displayed.

Note: You can also access this view by typing **WMQICOMP** on the command line and pressing **Enter**.

Figure 3-3 WMQI Components List

Step 3 To display detailed information for a component, select the component and press **Enter**.

The detail view for the component is displayed.

Note: See the online help for further information on the commands available in this view.

Monitoring WMQI Components

Summary:

You can monitor the status of brokers, execution groups, message flows, and the user name server on OS/390 and Distributed Systems.

This task provides an example of how to monitor execution groups and message flows. Once you determine which components you will monitor on a regular basis, you can save screens with the views that are the most useful. See *Using MAINVIEW* for instructions on saving screens with views.

To Monitor Execution Groups and Message Flows

- **Step 1** Set the context to the queue manager or queue managers for which you want to monitor execution groups and message flows.
- **Step 2** Type **EXECGRP** on the command line and press **Enter**.

The WMQI Execution Group Overview is displayed. From this view, you can determine the number of message flows that are started and stopped in each execution group and the trace status.

Step 3 To display detailed information for an execution group, select an execution group and press **Enter**.

The WMQI Execution Group Detail view is displayed.

Step 4 To check the status of individual message flows under this execution group, select the total count in the **Message Flows** field and press **Enter**.

The WMQI Message Flow Overview is displayed. From this view, you can determine which message flows are started or stopped.

Note: See the online help for further information on the commands available in these views.

Displaying and Changing Component Properties

Summary:

You can display and change properties for brokers, execution groups, message flows, nodes, the configuration manager, and the user name server.

This task provides an example of how to change broker properties.

To Display and Change Broker Properties

- **Step 1** Set the context to the queue manager associated with the broker for which you want to change properties.
- **Step 2** Type **BROKER** on the command line and press **Enter**.

The WMQI Broker Overview is displayed. From this view, you can determine the status of the broker and the number of resources that are associated with it.

Step 3 To display detailed information for a broker, select the broker and press Enter.

The WMQI Broker Detail view (Figure 3-4) is displayed.

Figure 3-4 WMQI Broker Details

```
01JUL2002 16:15:12 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)-----
COMMAND ===>
                                                  SCROLL ===> CSR
CURR WIN ===> 1
                ALT WIN ===>
>W1 =BROKER===BROKERD==HNBKR====*====01JUL2002==16:14:58====MVMQS====D===1
 Broker Properties.....
   Broker Name..... HUYNHMB
   Broker UUID...... a5923832-dd00-0000-0080-ab4b84e10d89
   Broker Process Id..... 700
   Broker Status..... Running
   Configuration Timeout......
Configuration Delay Timeout.
                                60
   Service User Password..... *********
   Data Source Name..... MQSIBKDB
   Data Source User ID..... patrol
   User Name Server QMgr..... (None)
   Work Path..... (None)
   User LIL Path...... D:/Program Files/IBM/WebSphere MQ Integrator
                           2.1/bin;D:/Program Files/IBM/WebSphere MQ I
                          ntegrator 2.1/jplugin
   MQSeries Trusted Application no
   Migrate Pub/Sub Broker..... no
```

Step 4 To change properties, overtype the values in the fields you want to change and press **Enter**.

Properties are updated.

Note: See the online help for further information on the fields you can change in this view.

Starting and Stopping Components

Summary:

You can start and stop brokers, message flows, the configuration manager, and the user name server. You can stop execution groups indirectly by stopping all of the message flows under the execution group, or by stopping the message broker for the execution group.

This task provides an example of how to start and stop a message flow.

To Start a Message Flow

- Step 1 Set the context to the queue manager associated with the broker that contains the message flow you want to start.
- **Step 2** Type **MSFLOW** on the command line and press **Enter**.

The WMQI Message Flow Overview is displayed. This view allows you to check the current status of message flows.

Step 3 In the CMD column of the message flow you want to start, type **STA** and press **Enter**.

The message flow is started.

To Stop a Message Flow

- Step 1 Set the context to the queue manager associated with the broker that contains the message flow you want to stop.
- **Step 2** Type MSFLOW on the command line and press Enter.

The WMQI Message Flow Overview is displayed. This view allows you to check the current status of message flows.

Step 3 In the CMD column of the message flow you want to stop, type **STO** and press **Enter**.

The message flow is stopped.

Running Traces

Summary:

You can start and stop traces for brokers, execution groups, message flows, and the user name server using MAINVIEW for WebSphere MQ Integrator. You can also set trace attributes. To view trace data, you must use WebSphere MQ Integrator.

This task provides an example of how to run a trace on a message broker.

To Start a Broker Trace

- **Step 1** Set the context to the queue manager associated with the broker you want to start tracing.
- **Step 2** Type **MBTRACE** on the command line and press **Enter**.

The WMQI Broker Trace view is displayed.

Step 3 On the line for the broker you want to trace, overtype the following fields as necessary to specify attributes for the trace:

Field	Values
Level	type normal to run a normal level trace type debug to run a more detailed trace
Mode	type safe to write trace information to a file as it is generated type fast to write trace information to a file in batches
Size	type a file size in kilobytes the trace file defaults to 1024 KB; you can enter a value up to 2 GB

Step 4 Press Enter.

The trace is started.

To Stop a Broker Trace

- **Step 1** Set the context to the queue manager associated with the broker you want to stop tracing.
- **Step 2** Type **MBTRACE** on the command line and press **Enter**.

The WMQI Broker Trace view is displayed.

Step 3 On the line for the broker you want to stop tracing, type **none** in the **Level** field.

The trace is stopped.

Viewing Windows Application Events

Summary:

To view Windows application events, you must select an application (event source) for which you want to view events, then specify how you want the events displayed.

To View Events

Step 1 From the EZMQI Easy Menu, select **Event Sources** and press **Enter**.

The WMQI Event Sources view (Figure 3-5) is displayed.

Note: You can also access this view by typing **EVTS** on the command line and pressing **Enter**.

Figure 3-5 WMQI Event Sources

```
01JUL2002 16:03:53 ----- MAINVIEW WINDOW INTERFACE(V4.1.01)-------
COMMAND ===>
                                                           SCROLL ===> CSR
CURR WIN ===> 1
                     ALT WIN ===>
W1 =EVTS======CMQM=====*====01JUL2002==16:03:46====MVMQS====D===45
CMD Event
--- Source
   Java VM
   McLogEvent
   McUpdate
   MsiInstaller
   MQSeries
   MQSIv2NeonPlugins
   MQSIv201
   MQSIv202
   Ntbackup.ini
   PatrolAgent
   Perfctrs
   Perflib
   Perfmon
   PerlMsg
   Profile Maker
   Replicator
   ReInitAgent
   SMS Client
```

Step 2 In the CMD column of the application for which you want to view events, type **S** and press **Enter**.

The WMQI Event Browse View is displayed.

- **Step 3** Overtype one or both of the following fields as necessary, then press **Enter**:
 - **Starting Location**, type the position of the first event you would like to display
 - Number to Retrieve, type the number of events you would like to display

The WMQI Event view (Figure 3-6) displays a list of events.

Figure 3-6 WMQI Events List

JRR						SCROLL ===> CSR
	WIN ===>	> 1	ALT WIN ===>			
W1 =	EVTSQ===	=======================================	CMQM=====*====	====01JUL2002=	=16:05:06	5====MVMQS====D===66
MD	Event	Event	Event	Event	Event	Event
	Number	Severity	Date	Time	Ident	Source
	2261	ERROR	07/01/2002	05:58:05PM	9999	MQSeries
	2260	ERROR	07/01/2002	05:58:04PM	9202	MQSeries
	2259	INFO	07/01/2002	05:58:03PM	9002	MQSeries
	2258	ERROR	07/01/2002	05:37:58PM	9999	MQSeries
	2257	ERROR	07/01/2002	05:37:57PM	9202	MQSeries
	2256	INFO	07/01/2002	05:37:56PM	9002	MQSeries
	2253	ERROR	07/01/2002	05:17:57PM	9999	MQSeries
	2252	ERROR	07/01/2002	05:17:57PM	9202	MQSeries
	2251	INFO	07/01/2002	05:17:55PM	9002	MQSeries
	2250	ERROR	07/01/2002	04:57:54PM	9999	MQSeries
	2249	ERROR	07/01/2002	04:57:54PM	9202	MQSeries
	2248	INFO	07/01/2002	04:57:52PM	9002	MQSeries
	2247	ERROR	07/01/2002	04:37:53PM	9999	MQSeries
	2246	ERROR	07/01/2002	04:37:52PM	9202	MQSeries
	2245	INFO	07/01/2002	04:37:51PM	9002	MQSeries
	2242	ERROR	07/01/2002	04:17:51PM	9999	MQSeries
	2241	ERROR	07/01/2002	04:17:50PM	9202	MQSeries
	2240	INFO	07/01/2002	04:17:49PM	9002	MOSeries

Step 4 To view details for a particular event, type **S** in the CMD column for that event and press **Enter**.

The WMQI Event Details view (Figure 3-7) is displayed.

Figure 3-7 WMQI Event Details

Exiting from MAINVIEW for WebSphere MQ Integrator

When you are finished working with MAINVIEW for WebSphere MQ Integrator, you can return to the MAINVIEW Selection Menu in one of two ways:

- 1. Press the PF3 key, or
- 2. Issue one of the following commands from the command list:
 - Quit
 - RETURN

Chapter 4 Setting Alarms

MAINVIEW® Alarm Manager works with MAINVIEW for WebSphere MQ Integrator, and other MAINVIEW products, to provide alarms. These alarms display messages that can alert you when system resources are overused.

This chapter contains the following sections:

MAINVIEW	Alarm Manager			 	 4-2
MAINVIEW	for WebSphere MC	Integrator Ala	rms	 	 4-2

MAINVIEW Alarm Manager

MAINVIEW Alarm Manager is a tool that, with other MAINVIEW products, notifies you when an exception condition occurs. MAINVIEW Alarm Manager can monitor multiple systems simultaneously. You can display a single view that shows exceptions for all MAINVIEW performance monitors within your MVS enterprise.

Any data element on any MAINVIEW product can be used to generate alarms that produce the following results:

- create MVS console or subsystem messages
- display messages in a MAINVIEW Alarm Manager view that let you hyperlink to the MAINVIEW product which produced the exception
- trigger an automated alert or action from MAINVIEW[®] AutoOPERATORTM for quick problem resolution

MAINVIEW Alarm Manager generates alarms when thresholds from specific MAINVIEW product views are exceeded. Alarms can be based on summarized data from multiple systems and subsystems that use MAINVIEW's single system image (SSI) capabilities.

Using MAINVIEW Alarm Manager, you can create and modify alarm definitions that display meaningful messages for your site's requirements. Alarms can be set for any (or all) severity levels, from informational to critical.

For more information about MAINVIEW Alarm Manager, see the MAINVIEW Alarm Manager *User Guide*.

MAINVIEW for WebSphere MQ Integrator Alarms

There are no sample alarms in this release of MAINVIEW for WebSphere MQ Integrator. However, you can set alarms to monitor the availability of the following components:

- · message broker
- message flow
- configuration manager
- user name server

Glossary

HFS Hierarchical File System. HFS extends IBM's traditional dataset architecture

to a multi-level nested architecture like that used in Unix and other Distributed Systems. The HFS Component Directory stores target

information that allows MAINVIEW for WebSphere MQ Integrator to access

WMQI components.

PID Process Identifier. Unique identifier assigned to a process by the operating

system when the process starts. This identifier distinguishes the process as

unique to the operating system and other programs.

UUID Universal Unique Identifier. A 128-bit number used to uniquely identify

an object or entity on the Internet.

Unix System Services. A Unix system environment on z/OS that allows

programs written for Unix or other Distributed Systems to be executed on IBM's z/OS. WebSphere MQ Integrator for z/OS uses Unix System Services

to execute Distributed Systems broker code on z/OS.

WMQI Abbreviation for IBM's WebSphere MQ Integrator message broker product.

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